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09/741,578	12/19/2000	Hiroshi Oshigiri	P/2617-17	5926

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EXAMINER	
LEE, JOHN J	

ART UNIT	PAPER NUMBER
2684	

DATE MAILED: 03/11/2004 10

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/741,578	Applicant(s) OSHIGIRI, HIROSHI	
	Examiner JOHN J LEE	Art Unit 2684	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *22 December 2003*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *2-6,8-14,18 and 19* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☒ Claim(s) *19* is/are allowed.

6)☒ Claim(s) *2-6,8-14 and 18* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 9.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

1. Applicant's arguments with respect to claims 2-6, 8-14, 18, and 19 have been considered but are moot in view of the new ground(s) of rejection.

Information Disclosure Statement

2. The information disclosure statement filed 12/22/2003 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each U.S. and foreign patent; each publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

Specification

3. The disclosure is objected to because of the following informalities: the information of US Patent Application number "No. 95237608" (line 25 in page 2) in the specification is not correct information.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. **Claims 2-6, 8-14, and 18** are rejected under 35 U.S.C. 103(a) as being unpatentable over Uchida et al. (US Patent number 6,590,878) in view of Uchida et al. (US Patent number 6,532,364).

Regarding **claims 2 and 8**, Uchida (878) discloses that a wireless local loop access network system (Fig. 1). Uchida (878) teaches that at least one base station (BS1, 2 in Fig. 1) making radio communication (Fig. 1) with a plurality of subscriber's terminals (MS, WS in Fig. 1) (Fig. 1 and column 10, lines 45 – 67). Uchida (878) teaches that a base station controller (MSC in Fig. 1) controlling said base station and connected to a public switched telephone network (6 in Fig. 1) (Fig. 1 and column 10, lines 45 – 67). Uchida (878) teaches that a memory (67 in Fig. 4) designed readable by said base station controller (5 in Fig. 4) for storing subscriber data therein (Fig. 23, 24 and column 12, lines 4 – 26). Uchida (878) also teaches that the memory (67 in Fig. 4) stores a second identifier used for identifying a subscriber in a radio-signal interface protocol (CDMA, TDMA) in said wireless local loop access network system (Fig. 4) (column 3, lines 15 – column 4, lines 16 and Fig. 25, 26 where teaches mobile switching center stores allocation information about the mobile stations and WLL stations, radio-signal interface protocol (CDMA, TDMA) in the memory).

However, Uchida (878) does not specifically disclose the limitation "the memory stores identifying a subscriber in an interface protocol between said wireless local loop access network system and said public switched telephone network and data about correspondence between the identifiers". However, Uchida (364) teaches the limitation "the memory (98 in Fig. 4) stores identifying a subscriber in an interface protocol between said wireless local loop access network system and said public switched telephone network and data about correspondence between the identifiers" (column 8, lines 29 – column 9, lines 22, Fig. 4, column 15, lines 1 – 64 where teaches the there are

two kind of interface (radio signaling interface and ATM (data packet) interface) between mobile switching.center (wireless local system) and public service telephone network and MSC stores the interfaces identification information for users). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the Uchida (878) system as taught by Uchida (364). The motivation does so would be to improve communication service quality and communication reliability for users in wireless communication system.

Regarding **claims 3 and 9,** Uchida (878) discloses that the memory (67 in Fig. 4) stores at least one of first data about a location of each of subscriber (zone number of mobile station in Fig. 25), second data about certification of each of subscriber (subscriber number in Fig. 25), third data about status of a terminal of each of subscriber (see Fig. 25), and fourth data about service relating to a radio interface of each of subscriber (transmission type in Fig. 25) (column 13, lines 17 – column 14, lines 53 and Fig. 26, 27).

Regarding **claims 4 and 10**, Uchida (878) does not specifically discloses the limitation "the data includes data about whether a subscriber's terminal is blockaded". However, Uchida (364) teaches the limitation "the data includes data about whether a subscriber's terminal is blockaded" (column 13, lines 5 – 59, Fig. 5, 12, and column 15, lines 1 – 54 where teaches according to the receiving data frame, MSC determines whether data packet interface (ATM type) or radio interface and if not a ATM type, MSC blocks data packet transmitting from the terminal). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the Uchida

(878) system as taught by Uchida (364). The motivation does so would be to achieve efficient communication connection service for users in wireless communication system.

Regarding **claims 5 and 11,** Uchida (878) discloses that the data includes data about whether a subscriber's terminal is turned on or off (Fig. 25, 27 and column 13, lines 17 – column 14, lines 53).

Regarding **claims 6 and 12**, Uchida (878) discloses that the data includes data about whether a subscriber's voice should be kept secret (column 16, lines 1 – 29 and Fig. 4, 28).

Regarding **claim 13,** Uchida (878) and Uchida (364) disclose all the limitation, as discussed in claim 2. Furthermore, Uchida (878) teaches that transmitting an origination message in a radio protocol (CDMA, TDMA) to said base station controller (MSC includes base station controller in Fig.1) through said base station (BS in Fig.1) when a subscriber hooks a terminal off (Fig. 1 and column 10, lines 45 – column 11, lines 22 where teaches as the terminal does not transmit the data packet, the terminal transmits a message in radio protocol). Uchida (878) teaches that accessing said data stored (Fig. 23, 24) in said memory (67 in Fig. 4) to obtain an address in a public switched telephone network protocol (6 in Fig. 4) based on said origination message (column 12, lines 4 – 48), said this step being carried out by said base station controller (MSC in Fig. 1) (Fig. 4 and column 12, lines 4 – 48). Uchida (878) also teaches that transmitting a first message together with said address in said public switched telephone network to said public switched telephone network (6 in Fig. 4) (column 12, lines 4 – 65).

Regarding **claim 14,** Uchida (878) discloses that the origination message includes a first identifier for identifying a subscriber (Fig. 4 and column 12, lines 4 – 48).

Regarding **claim 18,** Uchida (878) and Uchida (364) disclose all the limitation, as discussed in claims 2 and 13. Furthermore, Uchida (878) further teaches that the public switched telephone network (6 in Fig. 1) transmitting a first signal to said base station controller (MSC in Fig. 1) in a public switched telephone network protocol when said public switched telephone network (6 in Fig. 1) receives a phone call (communication connection) to a subscriber (Fig. 4 and column 12, lines 4 – 48). Uchida (878) teaches that the base station controller (MSC in Fig. 1) accessing said memory (67 in Fig. 4) to obtain a first identifier (Fig. 1) in said public switched telephone network protocol for identifying said subscriber (Fig. 25), based on said first signal (column 2, lines 46 – column 3, lines 30 and column 12, lines 4 – 48). Uchida (878) teaches that the base station controller (MSC in Fig. 1) transmitting a page message (communication channel) in a radio protocol to said base station (BS in Fig. 1), said page message indicating that a phone call (communication connection) to said subscriber has been received and including said first identifier (column 2, lines 46 – column 3, lines 30 and Fig. 1, 4). Uchida (878) teaches that the base station (BS in Fig. 1), on receipt of said page message, broadcasting said page message (column 4, lines 45 – column 5, lines 21 and Fig. 11, 15). Uchida (878) also teaches that a terminal of said subscriber (MS in Fig. 11, 15) recognizing a phone call to itself by knowing that said first identifier, which is an identifier of said terminal (Fig. 25), is contained in the thus broadcast page message (column 15, lines 19 – column 16, lines 29).

Allowable Subject Matter

6. Claim 19 is allowed.

Claim 19 is allowable over the prior art of record because a search does not detect the combined claimed elements as set forth in the claim 19.

As recited in independent claim 19, none of the prior art of record teaches or fairly suggests that a wireless local loop access network system includes the public switched telephone network transmitting a port control signal to the base station controller, said port control signal indicating that a certain subscriber is to be blockaded, and indicating an identifier for identifying said certain subscriber and the base station controller storing that certain subscriber is to be blockaded in the memory and access to memory and knowing the blockaded subscriber and then transmitting to base station for interrupting phone call, and together with combination of other element as set forth in the claim 19. Therefore, claim 19 is allowable over the prior art of records.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Doshi et al. (US Patent number 5,729,536) discloses Cellular System Architectures Supporting Data Services.

Biedermann et al. (US Patent number 6,397,069) discloses Procedure for Controlling the Set-Up of Calls with Transmission Channel Requirement of Different Network Terminations.

Any response to this action should be mailed to:

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or faxed to:

(703) 308-9051, (for formal communications intended for entry)

Or:

(703) 308-6606 (for informal or draft communications, please label "PROPOSED" or "DRAFT").

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **John J. Lee** whose telephone number is **(703) 306-5936**. He can normally be reached Monday-Thursday and alternate Fridays from 8:30am-5:00 pm. If attempts to reach the examiner are unsuccessful, the examiner's supervisor, **Nay Aung Maung**, can be reached on **(703) 308-7745**. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-4700.

J.L
March 2, 2004

Primary Examiner
MICHAEL CORSARO
PATENT EXAMINER

John J Lee